Introduction to Theoretical Seismology: Part I, Geodynamics, by James B. Macelwane, S.J. (New York: John Wiley and Sons, Inc., 1936). 366 pages, 67 figures, 40 tables.

The present volume on Geodynamics forms Part I of the coöperative treatise on Theoretical Seismology, of which Part II, *Seismometry*, by F. W. Sohon, S.J., which deals with the instruments and their records, was published in 1932. The book contains eleven chapters: Stresses in an elastic solid; Elastic strain; Relations between stress and strain; Elastic body waves; Surface waves on the plane boundary of an isotropic elastic solid; Vector treatment of elastic waves; Reflection and refraction of elastic waves; Paths of seismic waves; Interpretation of seismograms; Determination of epicenters; Depth of focus. The book is of outstanding value for everybody looking for the details of the classical theory of earthquake waves. It also gives a good cross section through the results which have been found from records. The book will be of greatest value for those interested in the fundamental theory of the propagation of earthquake waves. "The book has grown out of class room lectures given by the author" and has been drawn "particularly from the two classical works, *Vorlesungen über Seismometrie* by B. Galitzin and *The Mathematical Theory of Elasticity* by A. E. Love." It is to be hoped that very soon other volumes will follow on the problems connected with the origin of earthquakes, and on the recent developments of the theory of earthquake waves by Jeffreys, several Japanese and other seismologists.

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